

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

Application Number	10655345
Filing Date	09/04/2003
First Named Inventor	C. Steven McDaniel
Art Unit	1656
Examiner Name	Sheridan Swope
Attorney Docket Number	5842-00601

EXAM. INITIALS	CITE NO.	OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)
	1	ASTM D 964, Standard Specification for Metallic Copper Powder for Use in Antifouling Paints, published May 2003, 1 page.
	2	ASTM D 2574, Standard Test Method for Resistance of Emulsion Paints in the Container to Attack by Microorganisms, published June 2006, 4 pages.
	3	ASTM D 3273, Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber, published February 2006, 4 pages.
	4	ASTM D 3274, Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation, published June 1995, 4 pages.
	5	ASTM D 3456, Standard Practice for Determining by Exterior Exposure Tests the Susceptibility of Paint Films to Microbiological Attack, published May 1986, 4 pages.
	6	ASTM D 3623, Standard Test Method for Testing Antifouling Panels in Shallow Submergence, published June 2004, 8 pages.
	7	ASTM D 4610, Standard Guide for Determining the Presence of and Removing Microbial (Fungal or Algal) Growth on Paint and Related Coatings, published June 2004, 2 pages.
	8	ASTM D 4938, Standard Test Method for Erosion Testing of Antifouling Paints Using High Velocity Water, published June 1989, 4 pages.
	9	ASTM D 4939, Standard Test Method for Subjecting Marine Antifouling Coating to Biofouling and Fluid Shear Forces in Natural Seawater, published May 2003, 5 pages.
	10	ASTM D 5108, Standard Test Method for Organotin Release Rates of Antifouling Coating Systems in Sea Water, published February 1991, 6 pages.
	11	ASTM D 5479, Standard Practice for Testing Biofouling Resistance of Marine Coatings Partially Immersed, published May 1994, 2 pages.
	12	ASTM D 5589, Standard Practice Test Method for Determining the Resistance of Paint Films and Related Coatings to Algal Detachment, published September 1997, 4 pages.

/Sheridan Swope/ (02/11/2008)

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Information Disclosure Statement--PTO 1449 (modified)

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EXAM. INITIALS	CITE NO.	OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)
	13	<del>ASTM D 5590, Standard Test Method for Determining the Resistance of Paint Films and Related Coatings to Fungal Defacement by Accelerated Four Week Agar Plate Assay, published February 2006, 4 pages.</del>
	14	<del>ASTM D 5618, Standard Test Method for Measurement of Barnacle Adhesion Strength in Shear, published September 2005, 2 pages.</del>
	15	<del>BELL et al., "Reactive Coatings Literature Review," prepared for the U.S. Army Research Office, December 2001, 41 pages.</del>
	16	DUMAS et al., "Inactivation of Organophosphorus Nerve Agents by the Phosphotriesterase from <i>Pseudomonas diminuta</i> ," Archives of Biochemistry and Biophysics, Vol. 277, No. 1, February 1990, pp. 155-159.
	17	DUMAS et al., "Purification and Properties of the Phosphotriesterase from <i>Pseudomonas diminuta</i> ," The Journal of Biological Chemistry, Vol. 264, No. 33, November 1989, pp. 19659-19665.
	18	EFREMENKO et al., "Addition of Polybrene improves stability of organophosphate hydrolase immobilized in poly(vinyl alcohol) cryogel carrier," J. Biochem. Biophys. Methods, Vol. 51, 2002, pp. 195-201.
	19	"Green Marine Paint," Chemical Week, April 2001, p. 33.
	20	KIM et al., "Enhanced-Rate Biodegradation of Organophosphate Neurotoxins by Immobilized Nongrowing Bacteria," Biotechnol. Prog., Vol. 18, 2002, pp. 429-436.
	21	LEI et al., "Entrapping Enzyme in a Functionalized Nanoporous Support," J. Am. Chem. Soc., Vol. 124, 2002, pp. 11242-11243.
	22	MUNNECKE, "Detoxification of Pesticides Using Soluble or Immobilised Enzymes," Process Biochemistry, February 1978, pp. 14-16, 31.
	23	WU et al., "GFP-Visualized Immobilized Enzymes: Degradation of Paraoxon via Organophosphorus Hydrolase in a Packed Column," Biotechnology & Bioengineering, Vol. 77, 2002, pp. 212-218.
	24	FLICK, <u>Handbook of Paint Raw Materials, 2nd Ed.</u> , published by Noyes Publications, August 1989, pp. 263-285.

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EXAM. INITIALS	CITE NO.	OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)
	25	<del>ASTM D 912, Standard Specification for Cuprous Oxide for Use in Antifouling Paints, December 1981, 1 page.</del>
Duplicate	26	<del>WICKS et al., Organic Coatings, Science and Technology, Volume 1: Film Formation, Components and Appearance, published by Wiley-Interscience, October 1992, pp. 318-320.</del>
Duplicate	27	<del>WICKS et al., Organic Coatings, Science and Technology, Volume 2: Applications, Properties, and Performance, published by Wiley-Interscience, November 1993, pp. 145, 309, 319-323, 340-341.</del>

/Sheridan Swope/ (02/11/2008)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /SS/ (02/11/2008)

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**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(3)(1).

**OR**

- ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the persons signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to an individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☐ See attached certification statement.
- ☒ Fee set forth in 37 CFR 1.17(p) has been submitted herewith.
- ☐ None.

Respectfully submitted,  
/C. Steven McDaniel/  
C. Steven McDaniel  
Reg. No. 33,962

Customer No. 62754

Date: September 27, 2006